Position Requirements Document Cover Sheet **Position Number:** 13161

Classification: General Engineer, NH-0801-III
Local Title:
Employing Office Location: Orlando, Florida
Duty Station: Various

Org Info: **Agency:** Assistant Secretary of the Army (Acquisition, Logistics and Technology) ASA(ALT)
1st **Div:** Program Executive Office, Simulation, Training and Instrumentation (PEO STRI)
2nd **Div:** Project Support Group
3rd **Div:** Engineering Directorate
4th **Div:**

Supervisor's Certification: I certify that this is an accurate statement of the major duties and responsibilities of this position and its organizational relationships, and that the position is necessary to carry out government functions for which I am responsible. This certification is made with the knowledge that this information is to be used for statutory purposes relating to appointment and payment of public funds, and that false or misleading statements may constitute violations of such statutes or their implementing regulations.
Immediate Supervisor: Sandra N. Veautour
Title: ~~Deputy~~ Director, Virtual Simulation Systems
Signature: _____ **Date:** 6/9/04

Higher Supervisor or Manager: Edwin Trier
Title: Director, Research and Engineering
Signature: _____ **Date:** 6/9/04

Classification/Job Grading Certification: I certify that this position has been classified IAW Acquisition Workforce Personnel Demonstration Project broadbanding criteria.

Classification Official: Traci Jones
Title: Project Support Executive
Signature: _____ **Date:** 6/9/04

FLSA: Exempt	**BUS Code:** 7777 **CL:**
Drug Test: No	**Emergency Ess:**
Key Position:	**OPM Functions Code:** 13
Sensitivity: NCS	**Status:** Competitive
Reason for Submission:	**Subject to IA:** Yes
Previous PD Number:	**Mobilization:**
Envir. Diff:	**Career Prg ID:** 16
Acq Posn Category: S	**CAPL Number:**
Acq Career Level: 3	**Acq Posn Type:** 4
Acq Special Asgmt:	**Acq Prog Ind:**
Career Spec – Primary:	**Career Spec – Sec:**
Cont Job Site:	**Mobility:**
Financial Disclosure: [ ] Public Financial	[X] Confidential Financial
[ ] Supervisor [ ] Manager	[X] Neither

Citation 1: USOPM Handbook of Occupational Groups and Families August 2002, GS-0801 Series Definition
Citation 2: AWF, PDP, BLD, Federal Register, Volume 64, Jan 99
Citation 3: Acquisition Demo Position Requirements Document
Citation 4: GGEG for Nonsupvsry Prof Engrg Posns, GS-0800, TS-6 June 1971

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Acquisition Workforce Demo Project
Position Requirements Document

I. Organization information:

Position is located in a Division of the Engineering Directorate, Project Support Group, Program Executive Office, Simulation, Training and Instrumentation (PEO STRI).

II. Position information:

NH-801-III, General Engineer
Visual System/Database/Synthetic Natural Environment Engineer.

III. Duties:

The incumbent of this position will serve as the lead engineer responsible for providing technical oversight and direction for the development of interoperable synthetic natural environment (SNE), visual, and image generation components of live, virtual and constructive modeling and simulation systems. The responsibilities will pertain to the whole system lifecycle including front-end-analysis, concept formulation and demonstration, system acquisition, design, evaluation, integration, deployment and post deployment.

Work within project IPTs and will be the focal point for all issues relating to the synthetic natural environment and visual/image generation systems. The incumbent may be required to interact extensively with high level officials of the Army, other government agencies and contractors. Additionally, the incumbent will be expected to mentor and guide the development of lower or same grade engineers who seek lead positions as SNE and/or visual systems engineers.

Must possess expert knowledge of, and experience in technology areas pertaining to SNE and visual and image generation systems such as display systems; image generation hardware and software; sensor simulation and representation (FLIR, radar, low light level television, night vision goggles);data base generation and modeling systems, tools, methodologies and processes(including terrain, atmospheric and oceanographic model representations, environmental and weather effects); digital terrain database generation and database formats for visual/sensor simulation; geographic information systems; mapping, charting, geodesy, and imagery (MCG&I) source data; terrain database, visual system, and SNE interchange issues and their impacts in simulation system interoperability; visual/sensor database design issues, algorithms and techniques. The incumbent must maintain proficiency in state-of-the-art SNE, image generation, and display techniques; monitor commercial product developments, industrial and in-house research and development projects; and research programs of other government agencies and their results as they pertain to SNE, visual and image generation systems and their application to modeling and simulation.

Must additionally possess knowledge and experience in Army and DoD acquisition processes and their implementations within PEO STRI. The incumbent is responsible for keeping abreast of changes in these processes due to acquisition streamlining activities.

Provides technical evaluation of contractors' performance and is technical lead for the Government's acquisition team. Provides technical guidance and clarification to

contractor on Work Statement (WS), specification and Contract Data Requirements List (CDRL) and takes collective action when required. Consults with Subject Matter Experts (SMEs) to obtain technical guidance relating to on-going projects. Addresses contractors needs, questions and change proposals regarding technical, cost and schedule risks. Keeps management, product manager, project director, users and other team members informed of project status. Provides technical requirements continuity from concept through the life cycle.

As a member of a project team, prepares technical sections of acquisition packages (Request for Proposal (RFP)) for assigned projects. Supports the defense or justification of acquisition packages to the acquisition authority. Evaluates contractors' proposals for technical content, applicability to RFP, value and schedule impact. As a member of the evaluation team, prepares proposal evaluation reports; defends and justifies for acquisition authority. Clarifies and evaluates contractor final proposals and makes recommendation to acquisition authority for award of contract. Reviews, analyzes, and clarifies requirements and documentation through formal and informal meetings and discussions with SMEs. Conducts market surveys and analyzes make/buy decisions.

Evaluates and executes Small Business Innovation Research (SBIR) related to virtual, constructive and live simulation, simulators, training systems, instrumentation and interoperability requirements. Analyzes technical, cost and schedule risks. Supports the SBIR development as the subject matter expert. Supports the development of the long-range technology program plan for PEO STRI. Analyzes technical, cost and schedule risks. Reviews industry's Independent Research and Development (IR&D) and makes recommendations on applicability to the PEO STRI mission.

Performs other duties as assigned.

IV. Factors:

Factor: 1. - Problem Solving Level III.

Work is timely, efficient, and of acceptable quality. Completed work meets project/program objectives. Flexibility, adaptability, and decisiveness are exercised appropriately.

Independently defines, directs, or leads highly challenging projects/programs. Identifies and resolves highly complex problems not susceptible to treatment by accepted methods. Develops, integrates, and implements solutions to diverse, highly complex problems across multiple areas and disciplines. Anticipates problems, develops sound solutions and action plans to ensure program/mission accomplishment. Develops plans and techniques to fit new situations to improve overall program and policies. Establishes precedents in application of problem-solving techniques to enhance existing processes.

Factor: 2. - Teamwork/Cooperation Level III.

Work is timely, efficient, and of acceptable quality. Personal and organizational interactions exhibit and foster cooperation and teamwork. Flexibility, adaptability, and decisiveness are exercised appropriately.

Works with others to accomplish complex projects/programs. Applies innovative approaches to resolve unusual/difficult issues significantly impacting important policies or programs. Promotes and maintains environment for cooperation and teamwork. Leads and guides others in formulating and executing team plans. Expertise is sought by peers.

Factor: 3. - Customer Relations Level III.

Work is timely, efficient, and of acceptable quality. Personal and organizational interactions enhance customer relations and actively promote rapport with customers. Flexibility, adaptability, and decisiveness are exercised appropriately.

Guides and integrates functional efforts of individuals or teams in support of customer interaction. Seeks innovative approaches to satisfy customers. Establishes customer alliances, anticipates and fulfills customer needs, and translates customer needs to program/projects. Interacts independently and proactively with customers to identify and define complex/difficult problems and to develop and implement strategies or techniques for resolving problems (e.g., determining priorities and resolving conflict among customers' requirements).

Factor: 4. - Leadership/Supervision Level III.

Work is timely, efficient, and of acceptable quality. Leadership and/or supervision effectively promotes commitment to mission accomplishment. Flexibility, adaptability, and decisiveness are exercised appropriately.

Provides guidance to individuals/teams; resolves conflicts. Considered a functional/technical expert by others in the organization; is regularly sought out by others for advice and assistance. Defines, organizes, and assigns activities to accomplish project/program goals. Guides, motivates, and oversees the activities of individuals and teams with focus on project/program issues. Fosters individual/team development by mentoring. Pursues or creates training development programs for self and others.

Factor: 5. – Communication Level III.

Work is timely, efficient, and of acceptable quality. Communications are clear, concise, and at appropriate level. Flexibility, adaptability, and decisiveness are exercised appropriately.

Communicates project or program results to all levels, internally and externally. Reviews and approves, or is a major contributor to/lead author of, management reports or contractual documents for external distribution. Provides inputs to policies. Presents briefings to obtain consensus/approval.

Factor: 6. - Resource Management Level III.

Work is timely, efficient, and of acceptable quality. Resources are utilized effectively to accomplish mission. Flexibility, adaptability, and decisiveness are exercised appropriately.

Plans and allocates resources to accomplish multiple project/programs. Identifies and optimizes resources to accomplish multiple project/program goals. Effectively accomplishes multiple project/program goals within established guidelines.

Incumbent must be able to obtain and maintain a Secret security clearance.

May be required to travel within the U.S./overseas by commercial aircraft.

KNOWLEDGE, SKILLS, AND ABILITIES (KSAS) FOR QUALIFICATION PURPOSES.

Knowledge of the application of current visual/database/SNE technology, as identified for SMEs, as related to the design of electronic computer based military equipment of simulation, simulators, training systems and instrumentation projects

Knowledge of systems engineering techniques to include requirements analysis and design methodologies, metrics, reuse, documentation, ADA, independent verification and validation (IV&V) criteria, and post deployment software support (PDSS) criteria

Knowledge of test engineering and management techniques including Test and Evaluation Master Plan (TEMP) development and coordination through the Test Integration Working Group (TIWG) process-

Ability to analyze statistical and performance data to perform market surveys, risk analysis, trade-off studies, baseline cost estimates and reliability, availability, and maintainability (RAM) analysis

Knowledge of the organizational and functional responsibilities and operations of the employing organization

Knowledge of current modeling and simulation principles, techniques, processes, regulations, and policies

Knowledge of acquisition, development, fielding and life cycle support of simulations, simulators, training and instrumentation systems.

Ability to plan and execute complex, multi-faceted projects within established financial and time constraints

Ability to organize and lead special (study/project) teams and task forces with members from different organizations and commands

Ability to communicate orally and in writing

Ability to establish and maintain relationships with key individuals/ groups outside immediate work unit